

DIABETES

LITERATURE INDEX

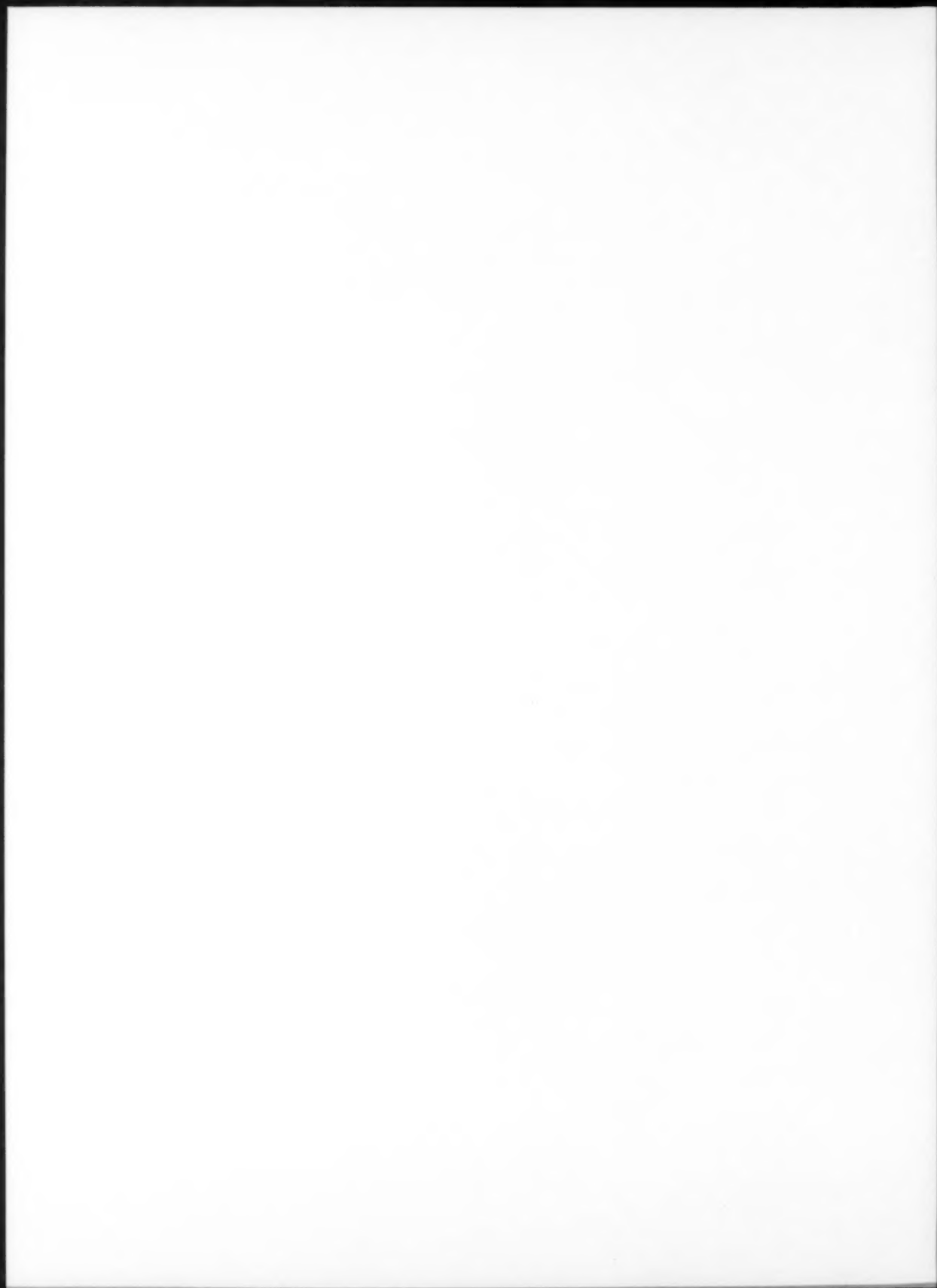
NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

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DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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Order of Arrangement

Arrangement of hierarchy
MEDLARS terms included in hierarchy
Hierarchical Subject Index
Keyword Index
Author Index

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical as-

pects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also-to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject

heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within

the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

- 1 SECTION 1. DIABETES MELLITUS AND RELATED TOPICS
 - 1.A ISLANDS OF LANGERHANS
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 - 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
 - 1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED
 - 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
 - 1.B PANCREAS
 - 1.B.1 PANCREAS, ANATOMY RELATED
 - 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 - 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 - 1.B.4 PANCREAS, PHARMACOLOGY RELATED
 - 1.B.5 PANCREAS, PATHOLOGY RELATED
 - 1.B.6 PANCREAS, SURGERY RELATED
 - 1.B.6.1 PANCREAS, TRANSPLANTATION
 - 1.B.6.2 PANCREATECTOMY
 - 1.C INSULIN
 - 1.C.1 INSULIN, BIOCHEMISTRY RELATED
 - 1.C.1.1 INSULIN, ISOLATION AND PURIFICATION
 - 1.C.1.2 INSULIN, ANALYSIS
 - 1.C.1.3 INSULIN, CHEMICAL SYNTHESIS
 - 1.C.1.4 INSULIN, BIOSYNTHESIS
 - 1.C.1.5 INSULIN, METABOLISM
 - 1.C.1.6 INSULIN, BLOOD
 - 1.C.1.7 INSULIN, URINE
 - 1.C.2 INSULIN, PHYSIOLOGY RELATED
 - 1.C.2.1 INSULIN, PHYSIOLOGY
 - 1.C.2.2 INSULIN, SECRETION
 - 1.C.3 INSULIN, PHARMACOLOGY RELATED
 - 1.C.3.1 INSULIN, PHARMACODYNAMICS
 - 1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS
 - 1.C.3.3 INSULIN, ADVERSE EFFECTS
 - 1.C.4 HYPERINSULINISM
 - 1.C.4.1 INSULIN COMA
 - 1.C.5 INSULIN ANTIBODIES
 - 1.C.6 INSULIN RESISTANCE
 - 1.C.7 INSULIN, THERAPY RELATED
 - 1.C.7.1 INSULIN, DIAGNOSTIC USE
 - 1.C.7.2 INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)
 - 1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)
 - 1.C.8 INSULIN, HISTORY
 - 1.D GLUCAGON
 - 1.D.1 GLUCAGON, BIOCHEMISTRY RELATED
 - 1.D.1.1 GLUCAGON, ANALYSIS
 - 1.D.1.2 GLUCAGON, METABOLISM
 - 1.D.1.3 GLUCAGON, BLOOD
 - 1.D.2 GLUCAGON, PHYSIOLOGY RELATED
 - 1.D.2.1 GLUCAGON, PHYSIOLOGY
 - 1.D.2.2 GLUCAGON, SECRETION
 - 1.D.3 GLUCAGON, PHARMACOLOGY RELATED
 - 1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE
 - 1.D.3.2 GLUCAGON, PHARMACODYNAMICS
 - 1.D.3.3 GLUCAGON, TOXICITY
 - 1.D.4 GLUCAGON, THERAPY RELATED
 - 1.D.4.1 GLUCAGON, DIAGNOSTIC USE
 - 1.D.4.2 GLUCAGON, THERAPEUTIC USE
 - 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS
 - 1.E.1 BLOOD SUGAR
 - 1.E.1.1 BLOOD SUGAR, ANALYSIS
 - 1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS
 - 1.E.1.3 BLOOD SUGAR, METABOLISM
 - 1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS
 - 1.E.2 GLUCOSE TOLERANCE TEST
 - 1.E.3 HYPERGLYCEMIA
 - 1.E.3.1 HYPERGLYCEMIA, BLOOD
 - 1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED
 - 1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS
 - 1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS
 - 1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY
 - 1.E.3.6 HYPERGLYCEMIA, ETIOLOGY
 - 1.E.3.7 HYPERGLYCEMIA, METABOLISM
 - 1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY
 - 1.E.3.9 HYPERGLYCEMIA, URINE
 - 1.E.4 GLYCOSURIA
 - 1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED
 - 1.E.4.2 GLYCOSURIA, COMPLICATIONS
 - 1.E.4.3 GLYCOSURIA, DIAGNOSIS
 - 1.E.4.4 GLYCOSURIA, DRUG THERAPY
 - 1.E.4.5 GLYCOSURIA, ENZYMOLOGY
 - 1.E.4.6 GLYCOSURIA, ETIOLOGY
 - 1.E.4.7 GLYCOSURIA, METABOLISM
 - 1.E.4.8 GLYCOSURIA, OCCURRENCE
 - 1.E.5 GLYCOSURIA, RENAL
 - 1.E.6 HYPOGLYCEMIA
 - 1.E.6.1 HYPOGLYCEMIA, BLOOD
 - 1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
 - 1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS
 - 1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS
 - 1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY
 - 1.E.6.6 HYPOGLYCEMIA, ETIOLOGY
 - 1.E.6.7 HYPOGLYCEMIA, METABOLISM
 - 1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY
 - 1.E.6.9 HYPOGLYCEMIA, THERAPY
 - 1.F DIABETES
 - 1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
 - 1.F.2 DIABETES MELLITUS
 - 1.F.2.1 DIABETES MELLITUS, JUVENILE
 - 1.F.3 DIABETES, BIOCHEMISTRY RELATED
 - 1.F.3.1 DIABETES, METABOLISM
 - 1.F.3.2 DIABETES, ENZYMOLOGY
 - 1.F.3.3 DIABETES, BLOOD
 - 1.F.3.4 DIABETES, URINE
 - 1.F.4 DIABETES, PHYSIOPATHOLOGY
 - 1.F.5 DIABETES, IMMUNOLOGY
 - 1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY
 - 1.F.6.1 DIABETIC KETOACIDOSIS
 - 1.F.6.1.1 ACIDOSIS, DIABETIC
 - 1.F.6.1.2 DIABETIC COMA
 - 1.F.6.2 DIABETIC ANGIOPATHIES
 - 1.F.6.3 DIABETIC NEPHROPATHIES
 - 1.F.6.4 DIABETIC NEUROPATHIES
 - 1.F.6.5 DIABETIC RETINOPATHY
 - 1.F.6.6 OTHER COMPLICATIONS OF DIABETES
 - 1.F.6.7 DIABETES PATHOLOGY
 - 1.F.6.8 PREGNANCY IN DIABETES
 - 1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
 - 1.F.7.1 DIABETES, OCCURRENCE
 - 1.F.7.2 DIABETES, ETIOLOGY
 - 1.F.7.3 DIABETES, CONGENITAL
 - 1.F.7.4 DIABETES, FAMILIAL AND GENETIC
 - 1.F.7.5 PREDIABETIC STATE
 - 1.F.8 DIABETES, DIAGNOSIS RELATED
 - 1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
 - 1.F.8.2 DIABETES, DIAGNOSIS
 - 1.F.9 DIABETES, THERAPY RELATED
 - 1.F.9.1 DIABETES, PREVENTION AND CONTROL
 - 1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY
 - 1.F.9.2.1 OBESITY IN DIABETES
 - 1.F.9.2.2 GLUCOSE, THERAPEUTIC USE
 - 1.F.9.2.3 DIET
 - 1.F.9.2.4 DIABETIC DIET
 - 1.F.9.2.5 DIETARY CARBOHYDRATES
 - 1.F.9.2.6 DIETARY FATS
 - 1.F.9.2.7 CYCLAMATES
 - 1.F.9.2.8 SACCHARIN
 - 1.F.9.3 DIABETES, INSULIN AND THERAPY

Arrangement of the Hierarchical Index

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE
 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY
 1.F.9.4.1 ANTIDIABETICS
 1.F.9.4.2 TOLBUTAMIDE
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
 1.F.9.4.4 PHENFORMIN
 1.F.9.4.5 OTHER BIGUANIDES
 1.F.9.5 DIABETES DRUG THERAPY
 1.F.9.6 DIABETES THERAPY
 1.F.9.7 DIABETES, RADIOGRAPHY
 1.F.9.8 DIABETES, SURGERY
 1.F.9.9 DIABETES, MORTALITY
 1.F.10 DIABETES, EXPERIMENTAL
 1.F.10.1 DIABETES, CHEMICALLY INDUCED
 1.F.10.2 ALLOXAN DIABETES
 1.F.10.2.1 ALLOXAN DIABETES, BLOOD
 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY
 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY
 1.F.10.2.4 ALLOXAN DIABETES, METABOLISM
 1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY
 1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY
 1.F.11 DIABETES, VETERINARY
 1.F.12 DIABETES, HISTORY
 2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
 2.A ENDOCRINE PANCREAS
 2.A.1 ISLETS (SEE SEC. 1.A)
 2.A.2 INSULIN (SEE SEC. 1.C)
 2.A.3 GLUCAGON (SEE SEC. 1.D)
 2.B ADRENAL GLANDS
 2.B.1 ADRENAL CORTEX
 2.B.2 ADRENAL CORTEX HORMONES
 2.B.2.1 GLUCOCORTICOIDS
 2.B.2.1.1 CORTISONE
 2.B.2.1.2 HYDROCORTISONE
 2.B.2.1.3 OTHER GLUCOCORTICOIDS
 2.B.2.2 MINERALOCORTICOIDS
 2.B.3 ADRENAL MEDULLA
 2.B.3.1 EPINEPHRINE
 2.B.3.2 NOREPINEPHRINE
 2.B.4 ADRENALECTOMY

2.B.5 ADRENAL DISORDERS
 2.C THYROID GLAND
 2.C.1 THYROID HORMONES
 2.C.2 THYROID ANTAGONISTS
 2.C.3 THYROID DISORDERS
 2.D PARATHYROID GLANDS
 2.E PITUITARY GLAND
 2.E.1 PITUITARY HORMONES, ANTERIOR
 2.E.1.1 CORTICOTROPIN
 2.E.1.2 SOMATOTROPIN
 2.E.1.3 THYROTROPIN
 2.E.1.4 GONADOTROPINS, PITUITARY
 2.E.2 PITUITARY HORMONES, POSTERIOR
 2.E.3 PITUITARY HORMONES, INTERMEDIATE
 2.E.4 PITUITARY HORMONE-RELEASING FACTORS
 2.E.5 HYPOPHYSECTOMY
 2.E.6 PITUITARY DISORDERS
 2.F GONADS
 2.F.1 OVARY
 2.F.2 TESTIS
 2.F.3 SEX HORMONES
 2.F.3.1 ANDROGENS
 2.F.3.2 ESTROGENS
 2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES
 2.F.3.3.1 CORPUS LUTEUM HORMONES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.4 CONTRACEPTIVES, ORAL
 2.F.4 GONADAL DISORDERS
 2.G OTHER ENDOCRINES AND RELATED TERMS
 2.G.1 ENDOCRINE GLANDS
 2.G.2 HORMONES
 2.G.2.1 GASTROINTESTINAL HORMONES
 2.G.2.2 PROSTAGLANDINS
 2.G.2.3 HORMONES, ECTOPIC
 2.G.2.4 PLACENTAL HORMONES
 2.G.2.5 RELAXIN
 2.G.2.6 JUVENILE HORMONES
 2.G.3 CHROMAFFIN SYSTEM
 2.G.4 PINEAL BODY
 2.G.5 PITUITARY-ADRENAL SYSTEM
 2.G.6 SECRETORY RATE

MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ACIDOSIS	1.F.6.1.1 ACIDOSIS, DIABETIC	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ACIDOSIS, DIABETIC	1.F.6.1.1 ACIDOSIS, DIABETIC	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ACROMEGALY	2.E.6 PITUITARY DISORDERS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
ADDISON'S DISEASE	2.B.5 ADRENAL DISORDERS	SURGERY	1.F.9.8 DIABETES, SURGERY
ADRENAL CORTEX HORMONES	2.B.2 ADRENAL CORTEX HORMONES	THERAPY	1.F.9.6 DIABETES THERAPY
ADRENAL GLAND HYPERFUNCTION	2.B.5 ADRENAL DISORDERS	URINE	1.F.3.4 DIABETES, URINE
ADRENAL GLAND HYPOFUNCTION	2.B.5 ADRENAL DISORDERS	VETERINARY	1.F.11 DIABETES, VETERINARY
ADRENAL GLANDS	2.B. ADRENAL GLANDS	DIABETES MELLITUS, JUVENILE	1.F.2.1 DIABETES MELLITUS, JUVENILE
ADRENAL MEDULLA	2.B.3 ADRENAL MEDULLA	BLOOD	1.F.3.3 DIABETES, BLOOD
ADRENALECTOMY	2.B.4 ADRENALECTOMY	CHEMICALLY INDUCED	1.F.10.1 DIABETES, CHEMICALLY INDUCED
ADRENOGENITAL SYNDROME	2.F.4 GONADAL DISORDERS	COMPLICATIONS	1.F.6.6 OTHER COMPLICATIONS OF DIABETES
	2.B.5 ADRENAL DISORDERS	CONGENITAL	1.F.7.3 DIABETES, CONGENITAL
ALDOSTERONE	2.B.2.2 MINERALOCORTICOIDS	DIAGNOSIS	1.F.8.2 DIABETES, DIAGNOSIS
ALLOXAN DIABETES	1.F.10.2 ALLOXAN DIABETES	DRUG THERAPY	1.F.9.5 DIABETES DRUG THERAPY
BLOOD	1.F.10.2.1 ALLOXAN DIABETES, BLOOD	ENZYMOLGY	1.F.3.2 DIABETES, ENZYMOLGY
DRUG THERAPY	1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY	ETIOLOGY	1.F.7.2 DIABETES, ETIOLOGY
ENZYMOLGY	1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLGY	FAMILIAL & GENETIC	1.F.7.4 DIABETES, FAMILIAL AND GENETIC
METABOLISM	1.F.10.2.4 ALLOXAN DIABETES, METABOLISM	HISTORY	1.F.12 DIABETES, HISTORY
PATHOLOGY	1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY	IMMUNOLOGY	1.F.5 DIABETES, IMMUNOLOGY
PHYSIOPATHOLOGY	1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY	METABOLISM	1.F.3.1 DIABETES, METABOLISM
	1.F.6.8 PREGNANCY IN DIABETES	MORTALITY	1.F.9.9 DIABETES, MORTALITY
AMNIOCENTESIS	2.F.3.1 ANDROGENS	OCCURRENCE	1.F.7.1 DIABETES, OCCURRENCE
ANABOLIC STEROIDS	2.F.3.1 ANDROGENS	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ANDROGENS	2.F.3.1 ANDROGENS	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ANDROSTERONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
	1.F.9.4.1 ANTIDIABETICS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
ANTIDIABETICS	1.F.6.8 PREGNANCY IN DIABETES	SURGERY	1.F.9.8 DIABETES, SURGERY
APGAR SCORE	1.F.6.2 DIABETIC ANGIOPATHIES	THERAPY	1.F.9.6 DIABETES THERAPY
ARTERIOSCLEROSIS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	URINE	1.F.3.4 DIABETES, URINE
BETAMETHASONE	1.F.9.4.5 OTHER BIGUANIDES	VETERINARY	1.F.11 DIABETES, VETERINARY
BIGUANIDES	1.E.1 BLOOD SUGAR	DIABETIC ANGIOPATHIES	1.F.2 DIABETES, ANGIOPATHIES
BLOOD SUGAR	1.E.1.1 BLOOD SUGAR, ANALYSIS	DIABETIC COMA	1.F.6.1.2 DIABETIC COMA
ANALYSIS	1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS	DIABETIC DIET	1.F.9.2.4 DIABETIC DIET
BIOSYNTHESIS	1.E.1.3 BLOOD SUGAR, METABOLISM	DIABETIC NEPHROPATHIES	1.F.6.3 DIABETIC NEPHROPATHIES
METABOLISM	1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS	DIABETIC NEUROPATHIES	1.F.6.4 DIABETIC NEUROPATHIES
PHARMACODYNAMICS	2.C.1 THYROID HORMONES	DIABETIC RETINOPATHY	1.F.6.5 DIABETIC RETINOPATHY
CALCITONIN	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIET	1.F.9.2.3 DIET
CARBUTAMIDE	2.F.3.3.2 PROGESTATIONAL HORMONES	DIET, ATHEROGENIC	1.F.9.2.3 DIET
CHLORMADINONE	2.F.3.2 ESTROGENS	DIET, REDUCING	1.F.9.2.3 DIET
CHLOROTRIANSENE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIETARY CARBOHYDRATES	1.F.9.2.5 DIETARY CARBOHYDRATES
CHLOROPROPAMIDE	2.G.2.1 GASTROINTESTINAL HORMONES	DIETARY FATS	1.F.9.2.6 DIETARY FATS
CHOLECYSTOKININ	1.F.9.2.6 DIETARY FATS	DIETHYLSTILBESTROL	2.F.3.2 ESTROGENS
CHOLESTEROL, DIETARY	2.G.3 CHROMAFFIN SYSTEM	DIODOTYROSINE	2.C.1 THYROID HORMONES
CHROMAFFIN SYSTEM	2.F.3.4 CONTRACEPTIVES, ORAL	DROMOSTANOLONE	2.F.3.1 ANDROGENS
CONTRACEPTIVES, ORAL	1.F.6.2 DIABETIC ANGIOPATHIES	DWARFISM, PITUITARY	2.E.6 PITUITARY DISORDERS
CORONARY DISEASE	2.F.1 OVARY	DYDROGESTERONE	2.F.3.2 PROGESTATIONAL HORMONES
CORPUS LUTEUM	2.F.3.3.1 CORPUS LUTEUM HORMONES	ECDYSONE	2.G.2 HORMONES
CORPUS LUTEUM HORMONES	2.B.2.1.3 OTHER GLUCOCORTICOIDS	ENDOCRINE DISEASES	2.G.1 ENDOCRINE GLANDS
CORTICOSTERONE	2.E.1.1 CORTICOTROPIN	ENDOCRINE GLANDS	2.G.1 ENDOCRINE GLANDS
CORTICOTROPIN	2.E.4 PITUITARY HORMONE RELEASING FACTORS	ENDOCRINE SYSTEM (NON MESH)	2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
CORTICOTROPIN RELEASING HORMONE	2.B.2.1.1 CORTISONE	EPINEPHRINE	2.B.3.1 EPINEPHRINE
CORTISONE	2.C.3 THYROID DISORDERS	ESTRADIOL	2.F.3.2 ESTROGENS
CRETINISM	2.B.5 ADRENAL DISORDERS	ESTRIOL	2.F.3.2 ESTROGENS
CUSHING'S SYNDROME	1.F.9.2.7 CYCLAMATES	ESTROGENIC SUBSTANCES, CONJUGATED	2.F.3.2 ESTROGENS
CYCLAMATES	1.C.2.2 INSULIN, SECRETION	ESTROGENS	2.F.3.2 ESTROGENS
CYTOCHALASIN B	1.C.2.2 INSULIN, SECRETION	ESTRONE	2.F.3.2 ESTROGENS
CYTOCHALASINS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	ETHINYL ESTRADIOL	2.F.3.2 ESTROGENS
DEHYDROEPIANDROSTERONE	2.F.3.1 ANDROGENS	ETHISTERONE	2.F.3.2 ESTROGENS
	2.B.2.2 MINERALOCORTICOIDS		2.F.3.3.2 PROGESTATIONAL HORMONES
DESOXYCORTICOSTERONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	ETHYLESTRENOL	2.F.3.2 ESTROGENS
DEXAMETHASONE	2.E.6 PITUITARY DISORDERS	ETHYNODIOL DIACETATE	2.F.3.1 ANDROGENS
DIABETES INSIPIDUS	1.F.2 DIABETES MELLITUS		2.F.3.3.2 PROGESTATIONAL HORMONES
DIABETES MELLITUS	1.F.3.3 DIABETES, BLOOD	ETIOCHOLANOLONE	2.F.3.2 ESTROGENS
BLOOD	1.F.10.1 DIABETES, CHEMICALLY INDUCED		2.F.3.2 ESTROGENS
CHEMICALLY INDUCED	1.F.6.6 OTHER COMPLICATIONS OF DIABETES	EUNUCHISM	2.F.3.1 ANDROGENS
COMPLICATIONS	1.F.7.3 DIABETES, CONGENITAL	FLUDROCORTISONE	2.F.4 GONADAL DISORDERS
CONGENITAL	1.F.8.2 DIABETES, DIAGNOSIS		2.B.2.1.3 OTHER GLUCOCORTICOIDS
DIAGNOSIS	1.F.9.5 DIABETES DRUG THERAPY	FLUOCINOLONE ACETONIDE	2.B.2.2 MINERALOCORTICOIDS
DRUG THERAPY	1.F.3.2 DIABETES, ENZYMOLGY	FLUOROMETHOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
ENZYMOLGY	1.F.7.2 DIABETES, ETIOLOGY	FLUOXIMESTERONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
ETIOLOGY	1.F.7.4 DIABETES, FAMILIAL AND GENETIC	FLURANDRENOLONE	2.F.3.1 ANDROGENS
FAMILIAL & GENETIC	1.F.12 DIABETES, HISTORY	FRDEHLICH'S SYNDROME	2.B.2.1.3 OTHER GLUCOCORTICOIDS
HISTORY	1.F.5 DIABETES, IMMUNOLOGY	FSH	2.E.6 PITUITARY DISORDERS
IMMUNOLOGY	1.F.3.1 DIABETES, METABOLISM	GASTRIN	2.E.1.4 GONADOTROPINS, PITUITARY
METABOLISM	1.F.9.9 DIABETES, MORTALITY	GASTROINTESTINAL HORMONES	2.G.2.1 GASTROINTESTINAL HORMONES
MORTALITY	1.F.7.1 DIABETES, OCCURRENCE		
OCCURRENCE			

MEDLARS Terms Included in Hierarchical Index

GIGANTISM
GLIBENCLAMIDE
GLUCAGON
ADMINISTRATION & DOSAGE

ANALYSIS
BLOOD
DIAGNOSTIC USE
METABOLISM
PHARMACODYNAMICS
PHYSIOLOGY
SECRETION
THERAPEUTIC USE
TOXICITY
GLUCOCORTICOID
GLUCOSE
THERAPEUTIC USE
GLUCOSE TOLERANCE TEST
GLYCOSURIA
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ENZYMOLGY
ETIOLOGY
METABOLISM
OCCURRENCE
GLYCOSURIA, RENAL
GOITER, EXOPHTHALMIC
GONADOTROPINS, CHORIONIC
GONADOTROPINS, EQUINE
GONADOTROPINS, PITUITARY
GONADS
GRAAFIAN FOLLICLE
GROWTH DISORDERS
HERMAPHRODITISM
HEXESTROL
HORMONES
HORMONES, ECTOPIC
HYDROCORTISONE
11-HYDROXYCORTICOSTEROIDS
17-HYDROXYCORTICOSTEROIDS
HYDROXYCORTICOSTEROIDS
HYDROXYMETHYLTESTOSTERONE
HYDROXYPROGESTERONE

HYPERALDOSTERONISM
HYPERGLYCEMIA

BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ETIOLOGY
METABOLISM
PHYSIOPATHOLOGY
URINE

HYPERINSULINISM
HYPERPITUITARISM
HYPERHYDROIDISM
HYPOGLYCEMIA

BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ETIOLOGY
METABOLISM
PHYSIOPATHOLOGY
THERAPY

HYPOGLYCEMIC AGENTS (NON MESH)
HYPOGONADISM
HYPOPHYSECTOMY
HYPOPIUITARISM
HYPOHYDROIDISM
INSULIN

ADMINISTRATION & DOSAGE
ADVERSE EFFECTS
ANALYSIS
ANTAGONISTS & INHIBITORS
BIOSYNTHESIS
BLOOD
CHEM SYNTHESIS
DIAGNOSTIC USE
HISTORY
ISOLATION & PURIFICATION
METABOLISM
PHARMACODYNAMICS

2.E.6 PITUITARY DISORDERS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.D. GLUCAGON
1.D.3.1 GLUCAGON, ADMINISTRATION AND
DOSAGE
1.D.1.1 GLUCAGON, ANALYSIS
1.D.1.3 GLUCAGON, BLOOD
1.D.4.1 GLUCAGON, DIAGNOSTIC USE
1.D.1.2 GLUCAGON, METABOLISM
1.D.3.2 GLUCAGON, PHARMACODYNAMICS
1.D.2.1 GLUCAGON, PHYSIOLOGY
1.D.2.2 GLUCAGON, SECRETION
1.D.4.2 GLUCAGON, THERAPEUTIC USE
1.D.3.3 GLUCAGON, TOXICITY
2.B.2.1 GLUCOCORTICIDS

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE
1.E.2 GLUCOSE TOLERANCE TEST
1.E.4 GLYCOSURIA
1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED
1.E.4.2 GLYCOSURIA, COMPLICATIONS
1.E.4.3 GLYCOSURIA, DIAGNOSIS
1.E.4.4 GLYCOSURIA, DRUG THERAPY
1.E.4.5 GLYCOSURIA, ENZYMOLOGY
1.E.4.6 GLYCOSURIA, ETIOLOGY
1.E.4.7 GLYCOSURIA, METABOLISM
1.E.4.8 GLYCOSURIA, OCCURRENCE
1.E.5 GLYCOSURIA, RENAL
2.C.3 THYROID DISORDERS
2.G.2.4 PLACENTAL HORMONES
2.G.2.4 PLACENTAL HORMONES
2.E.1.4 GONADOTROPINS, PITUITARY
2.F. GONADS
2.F.1 OVARY

2.E.6 PITUITARY DISORDERS
2.F.4 GONADAL DISORDERS
2.F.3.2 ESTROGENS
2.G.2 HORMONES
2.G.2.3 HORMONES, ECTOPIC
2.B.2.1.2 HYDROCORTISONE
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.B.5 ADRENAL DISORDERS
1.E.3 HYPERGLYCEMIA
1.E.3.1 HYPERGLYCEMIA, BLOOD
1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED
1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS
1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS
1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY
1.E.3.6 HYPERGLYCEMIA, ETIOLOGY
1.E.3.7 HYPERGLYCEMIA, METABOLISM
1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.E.3.9 HYPERGLYCEMIA, URINE
1.C.4 HYPERINSULINISM

2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.E.6 HYPOGLYCEMIA
1.E.6.1 HYPOGLYCEMIA, BLOOD
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS
1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS
1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY
1.E.6.6 HYPOGLYCEMIA, ETIOLOGY
1.E.6.7 HYPOGLYCEMIA, METABOLISM
1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.E.6.9 HYPOGLYCEMIA, THERAPY
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
2.F.4 GONADAL DISORDERS
2.E.5 HYPOPHYSECTOMY
2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.C. INSULIN
1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE
1.C.3.3 INSULIN, ADVERSE EFFECTS
1.C.1.2 INSULIN, ANALYSIS
1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS
1.C.1.4 INSULIN, BIOSYNTHESIS
1.C.1.6 INSULIN, BLOOD
1.C.1.3 INSULIN, CHEMICAL SYNTHESIS
1.C.7.1 INSULIN, DIAGNOSTIC USE
1.C.8 INSULIN, HISTORY
1.C.1.1 INSULIN, ISOLATION AND PURIFICATION
1.C.1.5 INSULIN, METABOLISM
1.C.3.1 INSULIN, PHARMACODYNAMICS

PHYSIOLOGY
SECRETION
THERAPEUTIC USE
URINE
INSULIN ANTIBODIES
INSULIN COMA
INSULIN, GLOBIN ZINC
INSULIN, ISOPHANE
INSULIN, LENTE
INSULIN, PROTAMINE ZINC
INSULIN RESISTANCE
INVERTEBRATE HORMONES
ISLANDS OF LANGERHANS
ANALYSIS

ANATOMY & HISTOLOGY

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLGY

GROWTH & DEVELOPMENT

INNERVATION

METABOLISM

PATHOLOGY

PHYSIOLOGY

PHYSIOPATHOLOGY

SECRETION

ISLET CELL TUMOR

JUVENILE HORMONES
17-KETOSTEROIDS
KIMMELSTIEL-WILSON SYNDROME
KLINEFELTER'S SYNDROME
LEYDIG CELL TUMOR
LEYDIG CELLS

LH
LH-FSH RELEASING HORMONE
LYNETHRENOL
MEDROXYPROGESTERONE
MELATONIN
METABOLISM
METABOLISM
METFORMIN
METHANDROSTENOLONE
METHYLPREDNISOLONE
METHYLTESTOSTERONE
METHYLTHIOURACIL
MINERALOCORTICIDS

MSH

MYXEDEMA

NANDROLONE

NOREPINEPHRINE

NORETHANDROLONE

NORETHINDRONE

NORETHYNODREL

NORMETHANDROLONE

OBESITY IN DIABETES

OVARIAN CYSTS

OVARIAN DISEASES

OVARIAN NEOPLASMS

OVARY

OXANDROLONE

OXYMETHOLONE

OXYTOXICS

OXYTOCIN

PANCREAS

ANALYSIS
BLOOD SUPPLY
CYTOLOGY
DRUG EFFECTS
EMBRYOLOGY
ENZYMOLGY
INNERVATION
METABOLISM

1.C.2.1 INSULIN, PHYSIOLOGY
1.C.2.2 INSULIN, SECRETION
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.C.1.7 INSULIN, URINE
1.C.5 INSULIN ANTIBODIES
1.C.4.1 INSULIN COMA
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.C.6 INSULIN RESISTANCE
2.G.2.3 HORMONES, ECTOPIC
1.A. ISLANDS OF LANGERHANS
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.4 ISLANDS OF LANGERHANS,
PHARMACOLOGY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY
RELATED
1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY
RELATED
2.G.2.6 JUVENILE HORMONES
2.B.2.1.3 OTHER GLUCOCORTICIDS
1.F.6.3 DIABETIC NEPHROPATHIES
2.F.4 GONADAL DISORDERS
2.F.4 GONADAL DISORDERS
2.F.2 TESTIS
2.E.1.4 GONADOTROPINS, PITUITARY
2.E.1.4 GONADOTROPINS, PITUITARY
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.E.3 PITUITARY HORMONES, INTERMEDIATE
2.F.3.2 ESTROGENS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.F.9.4.5 OTHER BIGUANIDES
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.1 ANDROGENS
2.C.2 THYROID ANTAGONISTS
2.B.2.2 MINERALOCORTICIDS
2.E.3 PITUITARY HORMONES, INTERMEDIATE
2.C.3 THYROID DISORDERS
2.F.3.1 ANDROGENS
2.B.3.2 NOREPINEPHRINE
2.F.3.1 ANDROGENS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.1 ANDROGENS
1.F.9.2.1 OBESITY IN DIABETES
2.F.1 OVARY
2.F.4 GONADAL DISORDERS
2.F.4 GONADAL DISORDERS
2.F.1 OVARY
2.F.3.1 ANDROGENS
2.F.3.1 ANDROGENS
2.E.2 PITUITARY HORMONES, POSTERIOR
2.E.2 PITUITARY HORMONES, POSTERIOR
1.B. PANCREAS
1.B.2 PANCREAS, BIOCHEMISTRY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.4 PANCREAS, PHARMACOLOGY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.2 PANCREAS, BIOCHEMISTRY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.2 PANCREAS, BIOCHEMISTRY RELATED

MEDLARS Terms Included in Hierarchical Index

PATHOLOGY	1.8.5 PANCREAS, PATHOLOGY RELATED	RECEPTORS, HORMONE	2.G.2 HORMONES
PHYSIOLOGY	1.8.3 PANCREAS, PHYSIOLOGY RELATED	RELAXIN	2.G.2.5 RELAXIN
PHYSIOPATHOLOGY	1.8.3 PANCREAS, PHYSIOLOGY RELATED	SACCHARIN	1.F.9.2.8 SACCHARIN
SECRETION	1.8.3 PANCREAS, PHYSIOLOGY RELATED	SECRETIN	2.G.2.1 GASTROINTESTINAL HORMONES
TRANSPLANTATION	1.8.6.1 PANCREAS, TRANSPLANTATION	SECRETORY RATE	2.G.6 SECRETORY RATE
PANCREATECTOMY	1.8.6.2 PANCREATECTOMY	SERTOLI CELL TUMOR	2.F.4 GONADAL DISORDERS
PANCREATIC DISEASES	1.8.5 PANCREAS, PATHOLOGY RELATED	SERTOLI CELLS	2.F.2 TESTIS
PANCREATIC EXTRACTS	1.8.4 PANCREAS, PHARMACOLOGY RELATED	SEX DIFFERENTIATION DISORDERS	2.F.4 GONADAL DISORDERS
PANCREATIC HORMONES	1.8.2 PANCREAS, BIOCHEMISTRY RELATED	SEX HORMONES	2.F.3 SEX HORMONES
PANCREOZYMIN	2.G.2.1 GASTROINTESTINAL HORMONES	SHEEHAN'S SYNDROME	2.E.6 PITUITARY DISORDERS
PARAMETHASONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	SKIN ULCER	1.F.6.2 DIABETIC ANGIOPATHIES
PARATHYROID DISEASES	2.D PARATHYROID GLANDS	SOMATOTROPIN	2.E.1.2 SOMATOTROPIN
PARATHYROID GLANDS	2.D PARATHYROID GLANDS	SOMATOTROPIN RELEASING HORMONE	2.E.1.2 SOMATOTROPIN
PARATHYROID HORMONE	2.D PARATHYROID GLANDS	STANOLONE	2.F.3.1 ANDROGENS
PHENFORMIN	1.F.9.4.4 PHENFORMIN	STANZOLOL	2.F.3.1 ANDROGENS
PINEAL BODY	2.G.4 PINEAL BODY	TESTICULAR DISEASES	2.F.4 GONADAL DISORDERS
PITUITARY-ADRENAL SYSTEM	2.G.5 PITUITARY-ADRENAL SYSTEM	TESTICULAR FEMINIZATION	2.F.4 GONADAL DISORDERS
PITUITARY GLAND	2.E PITUITARY GLAND	TESTICULAR NEOPLASMS	2.F.4 GONADAL DISORDERS
PITUITARY HORMONE RELEASING HORMONES	2.E.4 PITUITARY HORMONE RELEASING FACTORS	TESTIS	2.F.2 TESTIS
PITUITARY HORMONES, ANTERIOR	2.E.1 PITUITARY HORMONES, ANTERIOR	TESTOSTERONE	2.F.3.1 ANDROGENS
PITUITARY HORMONES, POSTERIOR	2.E.2 PITUITARY HORMONES, POSTERIOR	THIOCYANATES	2.C.2 THYROID ANTAGONISTS
PLACENTA DISORDERS	1.F.6.8 PREGNANCY IN DIABETES	THIOURACIL	2.C.2 THYROID ANTAGONISTS
PLACENTAL HORMONES	2.G.2.4 PLACENTAL HORMONES	THIOUREA	2.C.2 THYROID ANTAGONISTS
PREDIABETIC STATE	1.F.7.5 PREDIABETIC STATE	THYROID ANTAGONISTS	2.C.2 THYROID ANTAGONISTS
PREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYROID CRISIS	2.C.3 THYROID DISORDERS
PREDNISONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYROID GLAND	2.C THYROID GLAND
PREGNANCY	1.F.6.8 PREGNANCY IN DIABETES	THYROID HORMONES	2.C.1 THYROID HORMONES
PREGNANCY IN DIABETES	1.F.6.8 PREGNANCY IN DIABETES	THYROIDITIS	2.C.3 THYROID DISORDERS
PREGNANEDIOL	2.F.3.3.2 PROGESTATIONAL HORMONES	THYROIDITIS, LYMPHOMATOUS	2.C.3 THYROID DISORDERS
PREGNANETHIOL	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYRONINE	2.C.1 THYROID HORMONES
	2.F.3.3.2 PROGESTATIONAL HORMONES	THYROTROPIN	2.E.1.3 THYROTROPIN
	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYROTROPIN RELEASING HORMONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS
	2.F.3.3.2 PROGESTATIONAL HORMONES	THYROXINE	2.C.1 THYROID HORMONES
	2.F.3.3.2 PROGESTATIONAL HORMONES	TOLAZAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
PROGESTATIONAL HORMONES	2.F.3.3.2 PROGESTATIONAL HORMONES	TOLBUTAMIDE	1.F.9.4.2 TOLBUTAMIDE
PROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES	TRIAMCINOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PROINSULIN	1.C.1.4 INSULIN, BIOSYNTHESIS	TRIODOXYTHYRONINE	2.C.1 THYROID HORMONES
PROLACTIN	2.E.1.4 GONADOTROPINS, PITUITARY	TURNER'S SYNDROME	2.F.4 GONADAL DISORDERS
PROPYLTHIOURACIL	2.C.2 THYROID ANTAGONISTS	VASOPRESSIN	2.E.2 PITUITARY HORMONES, POSTERIOR
PROSTAGLANDINS	2.G.2.2 PROSTAGLANDINS	VIRILISM	2.F.4 GONADAL DISORDERS
PUBERTY, PRECOXIOUS	2.F.4 GONADAL DISORDERS	WATERHOUSE-FRIDERICHSEN SYNDROME	2.B.5 ADRENAL DISORDERS



SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

[EFFECT OF STREPTOZOCIN ON THE ORGANIC HYPOGLYCEMIA SYNDROME IN CHRONIC PANCREATITIS DUE TO NEOFORMATION IN LANGERHANS ISLANDS] Halmos T, Koranyi L, Salamon F, Szucs L, Tarjanyi M *Endokrinologie* 63: 43-52, 1974 (Ger)

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[EFFECT OF SWINE, CHICKEN AND FISH INSULINS ON THE GLUCOSE ABSORPTION BY

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1.D.2.1 GLUCAGON, PHYSIOLOGY

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- THE EFFECT OF THE INTERVENING VARIABLES AGE, SEX AND OVERWEIGHT ON THE INTRAVENOUS GLUCOSE TOLERANCE TEST.** Kruse-Jarres JD, Werner J Z *Klin Chem Klin Biochem* 11: 114-6, Mar 73 (Eng)
- STUDIES IN HUMAN REPRODUCTION: GLUCOSE TOLERANCE IN PARENTS OF MONGOLOID INFANTS.** Goldman JA *Acta Diabetol Lat* 11: 46-53, Jan-Feb 74 (Eng)
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- SCREENED GLUCOSURIA DURING PREGNANCY. CORRELATION WITH INTRAVENOUS GLUCOSE TOLERANCE TEST AND SERUM LIPIDS.** Castren O, Kallio V, Ruonen S *Acta Obstet Gynecol Scand* 53: 323-7, 1974 (Eng)
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- [MEASUREMENT OF PLASMA INSULIN AND GROWTH HORMONE AFTER ORAL GLUCOSE TOLERANCE TEST IN PATIENTS WITH ALCOHOLIC CIRRHOSIS]** Descos L, MBendi S, Sassolas G, Audigier JC, Sidiquian N, Faure A, Bizollon CA *Arch Fr Mal App Dig* 63: 17-24, Jan-Feb 74 (Fre)

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[EFFECT OF FASTING AND HYPOPHYSECTOMY ON THE LIPOLYTIC AND HYPERGLYCEMIC ACTION OF ADRENALINE IN DOGS TREATED WITH BETA BLOCKADERS] Berlan M, Baisset MA, Agid MR *C R Soc Biol (Paris)* 168: 117-23, 1974 (Fre)

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DECREASED INSULIN BINDING TO LYMPHOCYTES FROM DIABETIC SUBJECTS. Olefsky JM, Reaven GM *J Clin Invest* 54: 1323-8, Dec 74 (Eng)

LETTER: HYPERGLYCEMIA WITHOUT KETOSIS OR HYPERNATREMIA. Perkins KC *Am J Dis Child* 128: 885, Dec 74 (Eng)

1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED

ENDOTOXIC SUBSTANCE OF CRYPTOCOCCUS NEOFORMANS. Kobayashi T, Nakashima I, Kato N *Mycopathol Mycol Appl* 54: 391-404, 29 Nov 74 (Eng)

EFFECTS OF PROPANOLOL AND SOTALOL ON EPINEPHRINE-INDUCED HYPERGLYCEMIA AND GLYCOGEN DEPLETION OF LIVER AND MUSCLE IN THE RAT. Gothelf B, Ellis S *Proc Soc Exp Biol Med* 147: 259-62, Oct 74 (Eng)

1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS

[NEW THEORIES OF THE PATHOGENESIS OF DIABETIC NEUROPATHIES] Lekishvili VP *Klin Med (Mosk)* 52: 14-6, Nov 74 (Rus) [30]

[TESTICULAR DAMAGE IN EXPERIMENTAL ALLOXAN DIABETES IN RATS] Scaffidi L, Rotolo G *Minerva Med* 65: 4477-84, 1 Dec 74 (Ita)

[CHANGES IN THE ESTRUS CYCLE IN THE ESTRUS CYCLE OF RATS WITH ALLOXAN DIABETES] Scaffidi A, Rotolo G *Minerva Med* 65: 4485-90, 1 Dec 74 (Ita)

1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

[RAPID QUANTITATIVE METHOD OF DETERMINING BLOOD-GLUCOSE LEVELS WITH THE REFLOMAT (AUTHORS TRANSL)] Kat-

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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DEPRESSION OF HEPATIC GLUCONEOGENESIS BY ACUTE LEAD ADMINISTRATION. Cornell RP, Filkins JP *Proc Soc Exp Biol Med* 147: 371-6, Nov 74 (Eng)

1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

RESTRICTED REPLICATIVE LIFE-SPAN OF DIABETIC FIBROBLASTS IN VITRO: ITS RELATION TO MICROANGIOPATHY. Vracko R, Benditt EP *Fed Proc* 34: 68-70, Jan 75 (Eng)

DECREASED INSULIN BINDING TO LYMPHOCYTES FROM DIABETIC SUBJECTS. Olefsky JM, Reaven GM *J Clin Invest* 54: 1323-8, Dec 74 (Eng)

[NEW THEORIES OF THE PATHOGENESIS OF DIABETIC NEUROPATHIES] Lekishvili VP *Klin Med (Mosk)* 52: 14-6, Nov 74 (Rus) [30]

SERUM GLUCAGON AND INSULIN LEVELS AND THEIR RELATIONSHIP TO BLOOD GLUCOSE VALUES IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION AND ACUTE CORONARY INSUFFICIENCY. Wilkerson JT, Ricketson DR, Leshin SJ, Faloona GR, Unger RH *Am J Med* 57: 747-52, Nov 74 (Eng)

HYPERALIMENTATION AS A TREATMENT OF CROHNS DISEASE. Marshall F 2d *Am J Surg* 128: 652-3, Nov 74 (Eng)

1.E.3.7 HYPERGLYCEMIA, METABOLISM

1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

1.E.3.9 HYPERGLYCEMIA, URINE

1.E.4 GLYCOSURIA

DIABETES-INDUCED RESISTANCE OF VENTROMEDIAL HYPOTHALAMUS TO DAMAGE BY GOLD THIOGLUCOSE: REVERSAL BY ADRENALECTOMY. Debons AF, Krinsky I, From A, Pattinian H *Endocrinology* 95: 1636-41, Dec 74 (Eng)

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[EQUILIBRIUM IN DIABETES] Deuil R *Sem Hop Ther* 49 spec no: 87-9, Sep 73 (Fre)

[COMPARISON OF RAPID METHODS FOR NEPHROPATHY SCREENING] Gruhn I, Hesse A, Schneider HJ, Klinger G *Z Urol Nephrol* 67: 531-7, Jul 74 (Ger)

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ROLE OF CYCLIC ADENOSINE 3':5'-MONOPHOSPHATE IN THE ACTION OF 1,1,1-TRICHLORO-2,2-BIS-(P-CHLOROPHENYL)ETHANE (DDT) ON HEPATIC AND RENAL METABOLISM. Kacew S, Singhal RL *Biochem J* 142: 145-52, Jul 74 (Eng)

1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

1.E.4.2 GLYCOSURIA, COMPLICATIONS

1.E.4.3 GLYCOSURIA, DIAGNOSIS

EFFECTS OF ALLOXAN DIABETES ON MAGNESIUM METABOLISM IN THE RAT. Schneider LE, Schedl HP *Proc Soc Exp Biol Med* 147: 494-7, Nov 74 (Eng)

QUANTITATIVE GLUCOSE MEASUREMENT IN URINE AS SCREENING TEST FOR URINARY TRACT INFECTIONS. Zimmerman A, Ansgor R, Truss F *Urol Res* 1: 131-6, Oct 73 (Eng)

1.E.4.4 GLYCOSURIA, DRUG THERAPY

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

URINALYSIS AND OTHER TESTS OF RENAL FUNCTION. Wilson DM *Minn Med* 58: 9-17, Jan 75 (Eng) [9]

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1.E.4.7 GLYCOSURIA, METABOLISM

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

[FROM THE EVERYDAY INTERNAL PRACTICE—RENAL GLYCOSURIA] Frenkel J, Berber S *Med Pregl* 27: 223-6, 1974 (Ser)

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[ATYPICAL CASE OF INSULINOMA (AUTHORS TRANSL)] Lucke C, Grogler F, Mitzkat HJ *Med Klin* 69: 1456-9, 6 Sep 74 (Ger)

[HYPOGLYCEMIA IN THE NEONATAL PERIOD] Viegas D *Rev Paul Med* 83: 82-4, Feb 74 (Por)

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HYPOGLYCEMIA IN COMPENSATED CHRONIC RENAL INSUFFICIENCY. SUBSTRATE LIMITATION OF GLUCONEOGENESIS. Garber AJ, Bier DM, Cryer PE, Pagliara AS *Diabetes* 23: 982-6, Dec 74 (Eng)

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1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

[INFLUENCING THE EFFECT OF DIRASTAN (TOLBUTAMIDE) SIMULTANEOUS ADMINISTRATION OF CHLORAMPHENICOL IN PATIENTS WITH DIABETES AND BACTERIAL URINARY TRACT INFLAMMATION

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1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

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[THE MOST IMPORTANT ACUTE ALTITUDE DISEASES] Nitsche W *Med Monatsschr* 28: 249-50, Jun 74 (Ger)

1.F DIABETES

1.F.3 DIABETES, BIOCHEMISTRY RELATED

1.F.3.1 DIABETES, METABOLISM

ZINC CONTENT IN ISLET CELLS OF THE MAMMALIAN PANCREAS IN RELATION TO THE FUNCTIONAL STATE OF THE INSULAR SYSTEM. Toroptsev IV, Eshchenko VA, Troshkin VG *Bull Exp Biol Med* 77: 119-21, Aug 74 (Eng)

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PATHOLOGICAL IMPLICATIONS OF CELL AGING IN VITRO. Goldstein S, Niewiarowski S, Singal DP *Fed Proc* 34: 56-63, Jan 75 (Eng) [67]

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[DIABETES MELITUS: MANAGEMENT OF METABOLISM AND MICROANGIOPATHY] Mehnert H *Ther Ggw* 113: 1464-74, Sep 74 (Ger)

[SOLVED AND UNSOLVED PROBLEMS IN CHILDHOOD DIABETOLOGY] Matveeva NA, Smorchkov AP *Vopr Okhr Materin Det* 19: 51-6, Nov 74 (Rus)

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1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

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1.E.6.7 HYPOGLYCEMIA, METABOLISM

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L-DOPA AND THE CONTROL OF PROLACTIN SECRETION. Frantz AG, Suh HK *Adv Neurol* 5: 447-56, 1974 (Eng) [43]

1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

SYMPATHO-ADRENAL ACTIVITY IN PHYSICAL EXERCISE. Von Euler US *Med Sci Sports* 6: 165-73, Fall 74 (Eng)

[HYPOGLYCEMIA. 7. REVIEW OF THE LITERATURE FOR THE YEARS 1970-1973] Wolff G *Med Monatsschr* 28: 331-5, Aug 74 (Ger) [208]

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1.F DIABETES

1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

1.F.2 DIABETES MELITUS

EDITORIAL: PREMATURE AGEING SYNDROMES. Anonymous *Br Med J* 4: 489, 30 Nov 74 (Eng)

PATHOLOGICAL IMPLICATIONS OF CELL AGING IN VITRO. Goldstein S, Niewiarowski S, Singal DP *Fed Proc* 34: 56-63, Jan 75 (Eng) [67]

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ATHEROGENESIS AND THROMBOGENESIS. Redisch W *Proc Rudolph Virchow Med Soc City NY* 29: 119-20, 1972-73 (Eng)

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1.F.2.1 DIABETES MELITUS, JUVENILE

[DENTAL CARE IN THE YOUNG DIABETIC (VIEWPOINT OF THE DIABETES SPECIALIST)] Besse J *Rev Odontostomatol (Paris)* 3: 3-7, Jan-Feb 74 (Fre)

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ANNUAL CAMP FOR DIABETIC CHILDREN. Flint E *Australas Nurses J* 2: 14, 22, Jun 74 (Eng)

Diabetes Literature—Hierarchical Index

1.F DIABETES

HISTOCHEMICAL CLUES TO PROBLEMS IN GLUCOSE HOMEOSTASIS. THE GLUCOGENIC POTENTIAL OF PERIPHERAL TISSUES AND GLUCOSE-6-PHOSPHATASE ACTIVITY. Rosen SI *Acta Histochem (Jena)* 50: 1-18, 1974 (Eng)

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1.F.3.2 DIABETES, ENZYMOLOGY

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1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

1.F.8.2 DIABETES, DIAGNOSIS

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Diabetes Literature—Hierarchical Index

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PROGRESSIVE DETERIORATION OF GLUCOSE TOLERANCE IN THE AGED. Grobin W *J Am Geriatr Soc* 23: 31-7, Jan 75 (Eng)

THE USE OF A NURSE PRACTITIONER IN THE MANAGEMENT OF PATIENTS WITH DIABETES MELLITUS. Stein GH *Med Care* 12: 885-90, Oct 74 (Eng)

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A COMPARISON OF CARBOHYDRATE AND FAT UTILIZATION AFTER INGUINAL HERNIORRHAPHY. Feggetter JG, Wright PD, Johnston ID *Br J Surg* 61: 919-20, Nov 74 (Eng)

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[SUGARS AND ARTERIES. RESPONSIBILITY OF SUGARS IN CERTAIN HYPERLIPIDEMIAS AND THE ORIGIN OF ATHEROSCLEROSIS] Gouin B, Hardouin JP *Sem Hop Paris* 50: 1285-8, 20 Apr 74 (Fre)

[INFLUENCE OF FAT OR CARBOHYDRATE RICH DIET ON THE SERUM LIPOPROTEIN PATTERN OF A CHILD WITH PRIMARY HYPERTRIGLYCERIDEMIA (TYPE V HYPERLIPOPROTEINEMIA ACCORDING TO FREDERICKSON) (AUTHORS TRANSL)] Muller WD, Kostner GM *Wien Klin Wochenschr* 86: 757-62, 27 Dec 74 (Ger)

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[THE EFFECT OF DIFFERENT CALORIC SUPPLEMENTS (GLUCOSE, FRUCTOSE, TRIGLYCERIDES) ON THE UTILISATION OF PARENTERALLY ADMINISTERED AMINO ACIDS] Miller B, Knauff HG, Bautz G *Res Exp Med (Berl)* 162: 243-56, 28 Feb 74 (Ger)

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Diabetes Literature—Hierarchical Index

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- EPIDEMIOLOGY OF ADENOCARCINOMA OF THE KIDNEY.** Wynder EL, Mabuchi K, Whitmore WF Jr *J Natl Cancer Inst* 53: 1619-34, Dec 74 (Eng) [141]
- EFFECTS OF ALLOXAN DIABETES ON MAGNESIUM METABOLISM IN THE RAT.** Schneider LE, Schedl HP *Proc Soc Exp Biol Med* 147: 494-7, Nov 74 (Eng)
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- HYPERALIMENTATION AS A TREATMENT OF CROHNS DISEASE.** Marshall F 2d *Am J Surg* 128: 652-3, Nov 74 (Eng)
- THERMIC EFFECT OF GLUCOSE AND AMINO ACIDS IN MAN STUDIED BY DIRECT AND INDIRECT CALORIMETRY.** Pittet P, Gygyax PH, Jequier E *Br J Nutr* 31: 343-9, May 74 (Eng)
- RECENT ADVANCES IN PARENTERAL NUTRITION.** Vinnars E *Crit Care Med* 2: 143-51, May-Jun 74 (Eng) [58]
- [DYNAMICS OF THE LEVEL OF FREE FATTY ACIDS AND TRIGLYCERIDES IN THE BLOOD DURING FASTING AND FOOD LOADS IN THE EVALUATION OF LIPID METABOLISM IN PATIENTS WITH ARTERIOSCLEROSIS]** Lipovetskii VM, Ryzhov VM *Kardiologiya* 14: 40-3, May 74 (Rus)
- [THE EFFECT OF DIFFERENT CALORIC SUPPLEMENTS (GLUCOSE, FRUCTOSE, TRIGLYCERIDES) ON THE UTILISATION OF PARENTERALLY ADMINISTERED AMINO ACIDS]** Miller B, Knauff HG, Bautz G *Res Exp Med (Berl)* 162: 243-56, 28 Feb 74 (Ger)
- 1.F.9.2.7 CYCLAMATES**
- [NEW ARTIFICIAL SWEETENERS]** Gottinger E *Wien Med Wochenschr* 124: 393-5, 22 Jun 74 (Ger)
- 1.F.9.2.8 SACCHARIN**
- [NEW ARTIFICIAL SWEETENERS]** Gottinger E *Wien Med Wochenschr* 124: 393-5, 22 Jun 74 (Ger)
- 1.F.9.3 DIABETES, INSULIN AND THERAPY**
- 1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE**
- STUDIES OF THE PERIPHERAL VASODILATOR RESPONSE TO ACUTE INSULIN-INDUCED HYPOGLYCAEMIA IN MAN.** Middleton WG, French EB *Clin Sci Mol Med* 47: 461-70, Nov 74 (Eng)
- EVIDENCE OF SIMILAR BEHAVIOUR OF ZINK IN INTESTINAL CRYPTS AND PANCREATIC ISLETS.** Yoshinaga T *Endokrinologie* 63: 53-65, 1974 (Eng)
- [PREVENTION OF POSTTRAUMATIC FAT EMBOLISM]** Baltensweiler J *Helv Chir Acta* 41: 195-9, Mar 74 (Ger)
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- THE HYPOGLYCEMIC EFFECTS OF EXTERNAL INSULIN ON FISH AND FROGS.** Munford J, Greenwald L *J Exp Zool* 190: 341-6, Dec 74 (Eng)
- [PHENOMENON OF NEUTROPHIL LEUKOCYTOSIS AFTER INSULIN ADMINISTRATION]** Veretianov II, Dmyshko LM *Klin Med (Mosk)* 52: 138, Nov 74 (Rus)
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- [TREATMENT OF TUBERCULOSIS OF THE FEMALE SEX ORGANS]** Kolachevskaja EN *Akush Ginekol (Mosk)* 53-7, Oct 74 (Rus)
- 1.F.9.3.2 INSULIN, THERAPEUTIC USE**
- RENIN, ANGIOTENSIN, AND NOREPINEPHRINE IN ALLOXAN DIABETES.** Christlieb AR *Diabetes* 23: 962-70, Dec 74 (Eng)
- A CASE OF MAURIAC SYNDROME.** Muhammad U, Krishnaswamy CV, Saraswathy J *Assoc Physicians India* 22: 561-4, Jul 74 (Eng)
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- 1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY**
- 1.F.9.4.1 ANTIDIABETICS**
- [PREPARATION OF N,N-DIGUANYL-TETRAHYDRO AND HEXAHYDROPYRIDAZINE AND OF TETRA AND HEXAHYDRO-PYRIDAZINO-DIHYDROTRIAZOLIC DERIVATIVES OF PHARMACOLOGICAL INTEREST]** Pirisino G, Sparatore F *Boll Chim Farm* 113: 421-7, Aug 74 (Ita)
- [ORAL ANTIDIABETICS (HYPOGLYCEMIC SULFAMIDES AND BIGUANIDES)]** Vigne J *Bruux Med* 54: 91-7, Feb 74 (Fre)
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[LONG TERM MONOTHERAPY WITH BIGUANIDES IN DIABETES (AUTHORS TRANSL)] Studer-Wobmann E *Praxis* 63: 1316-7, 5 Nov 74 (Ger)

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THE HISTORY OF THE UNITED STATES

OF THE UNITED STATES OF AMERICA
FROM THE FIRST SETTLEMENTS TO THE PRESENT TIME
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SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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2.E.4 PITUITARY HORMONE RELEASING FACTORS

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2.F.3 SEX HORMONES

2.F.3.1 ANDROGENS

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2.F.3.3.1 CORPUS LUTEUM HORMONES

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2.G.2.5 RELAXIN

2.G.2.6 JUVENILE HORMONES

2.G.3 CHROMAFFIN SYSTEM

2.G.4 PINEAL BODY

EFFECT OF CONTINUOUS DARKNESS ON DIURNAL RHYTHM IN GLYCOGEN CONTENT IN PINEAL CELLS OF THE MOUSE: A SEMIQUANTITATIVE HISTOCHEMICAL STUDY. Kachi T, Matsushima S, Ito T *Anat Rec* 179: 405-10, Jul 74 (Eng)

2.G.5 PITUITARY-ADRENAL SYSTEM

2.G.6 SECRETORY RATE

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[PREPARATION OF N,N-DIGUANYLTETRAHYDRO AND HEXAHYDROPYRIDAZINE AND OF TETRA AND HEXAHYDRO-PYRIDAZINO-DIHYDROTRIAZOLIC DERIVATIVES OF PHARMACOLOGICAL INTEREST] Pirisino G, Sparatore F *Boll Chim Farm* 113: 421-7, Aug 74 (Ita)

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HYPERCORTICISM

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HYPERGLUCAGONEMIA

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Diabetes Literature—Keyword Index

HYPERGLYCEMIA

HYPERGLYCEMIA

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CARBOHYDRATE METABOLISM OF THE LENS DEPENDING ON AGE. I. FACTOR ANALYSIS OF CHANGES IN THE CONTENT OF ADENINE NUCLEOTIDES, INORGANIC

Diabetes Literature—Keyword Index

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SEVILLE

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THE METABOLIC EFFECTS OF SODIUM DICHOROACETATE IN THE STARVED RAT. Blackshear PJ, Holloway PA, Alberti KG *Biochem J* 142: 279-86, Aug 74 (Eng)

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MICRO-ELECTROPHORESIS IN CONTINUOUS-POLYACRYLAMIDE-GRADIENT GELS. II. FRACTIONATION AND DISSOCIATION OF SODIUM DODECYLSULFATE PROTEIN COMPLEXES. Ruchel R, Mesecke S, Wolfrum DI, Neuhoft V *Hoppe Seylers Z Physiol Chem* 355: 977-1020, Aug 74 (Eng)

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EFFECT OF GASTRIN AND GLUCAGON ON THE RESTING GASTRO-OESOPHAGEAL SPHINCTER PRESSURE AND THE RESPONSE OF THE SPHINCTER TO A RAISED INTRAGASTRIC PRESSURE. (Richie HD), Thomas PA, Earlam RJ *Br J Surg* 61: 916, Nov 74 (Eng)

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EFFECT OF GASTRIN AND GLUCAGON ON THE RESTING GASTRO-OESOPHAGEAL SPHINCTER PRESSURE AND THE RESPONSE OF THE SPHINCTER TO A RAISED INTRAGASTRIC PRESSURE. (Richie HD), Thomas PA, Earlam RJ *Br J Surg* 61: 916, Nov 74 (Eng)

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THE EFFECTS OF STARVATION AND INSULIN ON THE RELEASE OF GLUCONEOGENIC

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EFFECTS OF ACUTE STARVATION ON COLD-INDUCED THERMOGENESIS IN THE PREWEANLING RAT. Bignall KE, Heggenes FW, Palmer JE *Am J Physiol* 227: 1088-93, Nov 74 (Eng)

THIOESTER, ACYL COENZYME A

HORMONAL REGULATION OF ADIPOSE-TISSUE ACETYL-COENZYME A CARBOXYLASE BY CHANGES IN THE POLYMERIC STATE OF THE ENZYME. THE ROLE OF LONG-CHAIN FATTY ACYL-COENZYME A THIOESTERS AND CITRATE. Halestrap AP, Denton RM *Biochem J* 142: 365-77, Aug 74 (Eng)

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ADMINISTRATION, ORAL; ADULT; ANTIPYRINE (blood, administration & dosage, pharmacodynamics); CLINICAL RESEARCH; COMPARATIVE STUDY; FEMALE; HALF-LIFE; HUMAN; INJECTIONS, INTRAVENOUS; KINETICS; LIVER CIRRHOSIS (metabolism); MALE; MIDDLE AGE; SOLUTIONS; SPECTROPHOTOMETRY, ULTRAVIOLET; TIME FACTORS; TOLBUTAMIDE (blood, administration & dosage, pharmacodynamics); WARFARIN (blood, administration & dosage, pharmacodynamics).

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A COMPARISON OF THE EFFECTS OF SOME INOTROPIC AND CHRONOTROPIC AGENTS

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Diabetes Literature—Author Index

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OXIDATION-REDUCTION; RATS; TIME FACTORS.

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ARTHRITIS (immunology); COLITIS, ULCERATIVE (immunology); DERMATITIS HERPETIFORMIS (immunology); DIABETES MELLITUS (immunology); ENTERITIS, REGIONAL (immunology); GENOTYPE; GLOMERULONEPHRITIS (immunology); GOUT (immunology); HEPATITIS (immunology); HISTOCOMPATIBILITY ANTIGENS; HL-A; HUMAN; HYPERSENSITIVITY (immunology); INFECTIOUS MONONUCLEOSIS (immunology); LUPUS ERYTHEMATOSUS, SYSTEMIC (immunology); MULTIPLE SCLEROSIS (immunology); MYASTHENIA GRAVIS (immunology); NEOPLASMS (immunology); POLIOMYELITIS (immunology); REITERS DISEASE (immunology); REVIEW; RHEUMATIC FEVER (immunology); SARCOIDOSIS (immunology); THYROIDITIS (immunology); TUBERCULOSIS (immunology).

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Diabetes Literature—Author Index

De Rick A

(metabolism); LIVER (metabolism); LUNG (metabolism); MATERNAL/FETAL EXCHANGE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PREGNANCY; PREGNANCY, ANIMAL.

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ADOLESCENCE; ADULT; AMYLOIDOSIS (diagnosis); BIOPSY; COMPARATIVE STUDY; DIABETIC NEPHROPATHIES (diagnosis); ENGLISH ABSTRACT; FEMALE; FLUORESCENT ANTIBODY TECHNIC; GLOMERULONEPHRITIS (diagnosis, pathology, immunology); HUMAN; IGA (analysis); IGG (analysis); IGM (analysis); KIDNEY DISEASES (diagnosis, pathology, immunology); KIDNEY (ultrastructure); MALE; MIDDLE AGE.

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De Robertis E

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ADULT; ANTIDIABETICS (therapeutic use); DIABETES MELLITUS (complications, therapy); DIARRHEA (etiology); DIET THERAPY; HUMAN; MALE; PANCREATITIS (complications, therapy, diagnosis).

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(blood); TRIGLYCERIDES (blood); URIC ACID (blood).

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AMINO ACIDS (biosynthesis); EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); GLYCERIN (biosynthesis); HORMONES (metabolism); HUMAN; INSULIN (metabolism); LACTATES (biosynthesis, physiology); MUSCLES (metabolism); OXYGEN CONSUMPTION; PROTEINS (metabolism).

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COMPARATIVE STUDY; GLYCOGEN (biosynthesis); ESCHERICHIA COLI (metabolism); MUTATION; ADENOSINE TRIPHOSPHATE (metabolism); KINETICS; SPECTROPHOTOMETRY; GLUCOSE (metabolism); SPECIES SPECIFICITY; LACTOSE (metabolism); HEXOSEDIPHOSPHATES (metabolism); FRUCTOSEPHOSPHATES (metabolism); ALLOSTERIC REGULATION; TIME FACTORS; REGRESSION ANALYSIS.

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SOMATOSTATIN-INDUCED CHANGES IN INSULIN AND GLUCAGON SECRETION IN NORMAL AND DIABETIC DOGS. Sakurai H, Dobbs R, Unger RH *J Clin Invest* 54: 1395-402, Dec 74 (Eng)

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[PERINATOLOGY. NEONATAL EMERGENCIES] Dodion J *Brux Med* 54: 79-86, Feb 74 (Fre)
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DISEASES (therapy); INFANT, PREMATURE. DISEASES (therapy); INTESTINAL OBSTRUCTION (therapy); METABOLISM, INBORN ERRORS (therapy); NERVOUS SYSTEM DISEASES (therapy); TACHYCARDIA, PAROXYSMAL (therapy); URINARY TRACT (abnormalities).

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Diabetes Literature—Author Index

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Diabetes Literature—Author Index

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PLASMA PROINSULIN-LIKE COMPONENTS.

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HUMAN GROWTH HORMONE. CHARACTERIZATION OF PLASMA AND PITUITARY COMPONENTS AND APPLICATION OF A NEW RADIORECEPTOR ASSAY.

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ACROMEGALY (blood); ANTIGENS; BINDING SITES; GAMMA GLOBULINS; GEL FILTRATION; GROWTH DISORDERS (blood); HUMAN; INSULIN (metabolism); IODINE RADIOISOTOPES; LYMPHOCYTES (metabolism); MOLECULAR WEIGHT; PITUITARY GLAND (secretion); RADIOIMMUNOASSAY; RADIOLOGAND ASSAY; RECEPTORS, HORMONE; REVIEW; SOMATOMEDIN (metabolism); SOMATOTROPIN (blood, secretion, immunology).

Gorman RR

SPECIFIC PGE₁ AND PGE₂ BINDING SITES IN PLATELET MEMBRANES. Gorman RR *Prostaglandins* 6: 542, 25 Jun 74 (Eng)

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Gospodarowicz D

STIMULATION OF DIVISION OF SPARSE AND CONFLUENT 3T3 CELL POPULATIONS BY A FIBROBLAST GROWTH FACTOR, DEXAMETHASONE, AND INSULIN. Gospodarowicz D, Moran JS *Proc Natl Acad Sci USA* 71: 4584-8, Nov 74 (Eng)

BLOOD; CELL DIVISION (drug effects); CELL LINE; CULTURE MEDIA; DEXAMETHASONE (pharmacodynamics); DNA (biosynthesis); FIBROBLASTS; GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); MICE, INBRED BALB C; STIMULATION, CHEMICAL; THYMIDINE (metabolism); TRITIUM.

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Gothelf B

EFFECTS OF PROPANOLOL AND SOTALOL ON EPINEPHRINE-INDUCED HYPERGLYCEMIA AND GLYCOGEN DEPLETION

OF LIVER AND MUSCLE IN THE RAT. Gothelf B, Ellis S *Proc Soc Exp Biol Med* 147: 259-62, Oct 74 (Eng)

ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); EPINEPHRINE (pharmacodynamics, administration & dosage); FASTING; FEMALE; GLYCOGEN (metabolism); HYPERGLYCEMIA (chemically induced); INJECTIONS, INTRAPERITONEAL; LIVER GLYCOGEN (metabolism); MUSCLES (metabolism); PROPRANOLOL (pharmacodynamics, administration & dosage); RATS; SOTALOL (pharmacodynamics, administration & dosage).

Gotlieb D

[THE KIDNEY IN DIABETES: STUDY OF VARIOUS PATHOLOGICAL AND CLINICAL ASPECTS] Nadal MA, Bermudez J, Iotti R, Larquia AA, Duhart JE, Ibarra R, Lancetremere R, Gotlieb D *Medicina (B Aires)* 34: 500-6, Sep-Oct 74 (Spa)

Goto F

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. IX. STUDIES ON THE ACTIVE TRANSPORT REACTION IN SODIUM AZIDE- AND 2,4-DINITROPHENOL-SENSITIVE MUTANTS OF *ESCHERICHIA COLI*. Goto F, Anraku Y *J Biochem (Tokyo)* 75: 243-51, Feb 74 (Eng)

ESCHERICHIA COLI (metabolism, drug effects); MUTATION; PROLINE (metabolism); SODIUM (pharmacodynamics); AZIDES (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); OXYGEN CONSUMPTION; CARBON (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CARBON RADIOISOTOPES.

Gottinger E

[NEW ARTIFICIAL SWEETENERS] Gottinger E *Wien Med Wochenschr* 124: 393-5, 22 Jun 74 (Ger)

HISTORY OF MEDICINE, MEDIEVAL; HISTORY OF MEDICINE, 19TH CENT.; HISTORY OF MEDICINE, 20TH CENT.; HISTORICAL ARTICLE; SWEETENING AGENTS (adverse effects, history); SACCHARIN; PHENYLUREA COMPOUNDS; CYCLAMATES; TRIAZOLES; PLANTS, MEDICINAL.

Gouin B

[SUGARS AND ARTERIES. RESPONSIBILITY OF SUGARS IN CERTAIN HYPERLIPIDEMIAS AND THE ORIGIN OF ATHEROSCLEROSIS] Gouin B, Hardouin JP *Sem Hop Paris* 50: 1285-8, 20 Apr 74 (Fre)

ARTERIOSCLEROSIS (chemically induced); ATHEROSCLEROSIS (chemically induced, complications); DIABETES MELLITUS (complications); DIETARY CARBOHYDRATES (adverse effects); EPIDEMIOLOGIC METHODS; HUMAN; HYPERLIPIDEMIA (chemically induced, blood, diet therapy); LIPOPROTEINS (blood).

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Grafnetterova J

[TOLBUTAMIDE SERUM LEVELS IN CHLORAMFENICOL TREATED DIABETIC FEMALES (AUTHORS TRANSL)] Brunova E, Slabochova Z, Platilova H, Pavlik F, Grafnetterova J, Dvoracek K *Cas Lek Cesk* 113: 1484-7, 29 Nov 74 (Cze)

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GASTRIC JUICE (secretion); GASTROINTESTINAL MOTILITY; HUMAN; INSULIN (pharmacodynamics); PENTAGASTRIN (pharmacodynamics); STIMULATION, CHEMICAL; STOMACH ULCER (physiopathology, surgery); TIME FACTORS; VAGOTOMY.

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THE HYPOGLYCEMIC EFFECTS OF EXTERNAL INSULIN ON FISH AND FROGS. Munford J, Greenwald L *J Exp Zool* 190: 341-6, Dec 74 (Eng)

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ADULT; DIABETIC RETINOPATHY (diagnosis, classification, physiopathology); FEMALE; FLUORESCENCE ANGIOGRAPHY; FUNDUS OCULI (blood supply); HUMAN; MALE; OPHTHALMOSCOPY; PROGNOSIS.

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COMPARATIVE STUDY; MEMBRANES, ARTIFICIAL; PHOSPHOLIPIDS; WATER (metabolism); MICROSOMES, LIVER (metabolism); ELECTRON SPIN RESONANCE; NITROGEN ISOTOPES; MATHEMATICS; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; SPIN LABELS; STEARIC ACID; MYELIN SHEATH (metabolism); LECTITHINS; SOLVENTS; EGG YOLK; TEMPERATURE; SOLUBILITY; MEMBRANES (metabolism).

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PROGRESSIVE DETERIORATION OF GLUCOSE TOLERANCE IN THE AGED. Grobin W *J Am Geriatr Soc* 23: 31-7, Jan 75 (Eng)

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[COMPARISON OF RAPID METHODS FOR NEPHROPATHY SCREENING] Gruhn I, Hesse A, Schneider HJ, Klinger G *Z Urol Nephrol* 67: 531-7, Jul 74 (Ger)

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Grune M

REAGENT STRIPS (diagnostic use); URINE (analysis).

Grune M

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INFLUENCE OF HYPOPHYSECTOMY, THYROID HORMONE AND INSULIN ON THE ACTIVITY OF 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE IN RAT LIVER. Huber J, Guder W, Müller OA, Latzin S, Ganser H, Hamprecht B *Hoppe Seylers Z Physiol Chem* 355: 669-74, Jun 74 (Eng)

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[ETIOPATHOGENESIS OF DIABETIC ANGIOPATHIES] Guinet P *Sem Hop Ther* 49 spec no: 95-8, Sep 73 (Fre)

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Hahnloser P

[AN EXPERIMENTAL STUDY OF THE CORRELATION BETWEEN THE BLOOD FLOW OF THE HEPATIC ARTERY AND THE PORTAL VEIN] Hahnloser P, Tibblin S, Kock NG *Helv Chir Acta* 41: 29-34, Mar 74 (Ger)

ANIMAL EXPERIMENTS; BLOOD FLOW VELOCITY; BLOOD PRESSURE; CONSTRICTION; DOGS; GLUCAGON (pharmacodynamics); HEPATIC ARTERY (physiology); LIVER CIRCULATION (drug effects); PORTAL VEIN (physiology); VASCULAR RESISTANCE; VENOUS PRESSURE.

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DOGS; ANIMAL EXPERIMENTS; MALE; ARTERIOSCLEROSIS (surgery, pathology); ARTERIES (surgery); VEINS (transplantation); JUGULAR VEIN (transplantation, pathology); TRANSPLANTATION, AUTOLOGOUS; AORTA, ABDOMINAL (surgery); FEMORAL ARTERY (surgery); CAROTID ARTERIES (surgery); HYPERCHOLESTEREMIA (pathology); THYROIDECTOMY; CHOLESTEROL (blood); STAINS AND STAINING; DISEASE MODELS, ANIMAL; DIET, ATHEROGENIC.

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THE EFFECT OF INSULIN ON 32PI INCORPORATION INTO RAT FAT CELL PHOSPHOLIPIDS. Stein JM, Hales CN *Biochim Biophys Acta* 337: 41-9, 23 Jan 74 (Eng)

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ANIMAL EXPERIMENTS; MALE; IN VITRO; CALCIUM (analysis, metabolism); ENDOPLASMIC RETICULUM (analysis); ADIPOSE TISSUE (analysis, cytology, metabolism); MICROSCOPY, ELECTRON; LIPIDS (analysis); CYTOPLASM (analysis); CELL MEMBRANE (analysis); MITOCHONDRIA (analysis); MODELS, BIOLOGICAL.

Halestrap AP

HORMONAL REGULATION OF ADIPOSE-TISSUE ACETYL-COENZYME A CARBOXYLASE BY CHANGES IN THE POLYMERIC STATE OF THE ENZYME. THE ROLE OF LONG-CHAIN FATTY ACYL-COENZYME A THIOESTERS AND CITRATE. Halestrap AP, Denton RM *Biochem J* 142: 365-77, Aug 74 (Eng)

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Diabetes Literature—Author Index

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Diabetes Literature—Author Index

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GLYCOSURIA; HEXOSEPHOSPHATASE (metabolism); KIDNEY (metabolism, drug effects); LIVER (metabolism, drug effects); MALE; MODELS, BIOLOGICAL; PHOSPHODIESTERASES (metabolism); PHOSPHOENOLPYRUVATE (metabolism); PYRUVATE CARBOXYLASE (metabolism); RATS; THEOPHYLLINE (pharmacodynamics); TRITIUM.

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Diabetes Literature—Author Index

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 ENGLISH ABSTRACT; HUMAN; LASER
 COAGULATION (methods, instrumentation);
 POSTOPERATIVE COMPLICATIONS
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 CHROMATOGRAPHY; COMPARATIVE
 STUDY; DIABETES MELLITUS, JUVENILE
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 PITUITARY NEOPLASMS (metabolism); BRAIN
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Diabetes Literature—Author Index

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Diabetes Literature—Author Index

Owor R

(pharmacodynamics); CHLORIDES (pharmacodynamics); CALCIUM (pharmacodynamics); PERMEABILITY; MAGNESIUM (pharmacodynamics); BIOLOGICAL TRANSPORT; HYDROGEN-ION CONCENTRATION; MATHEMATICS; KINETICS; NEURAL CONDUCTION; CELL MEMBRANE (drug effects, metabolism); TIME FACTORS.

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(occurrence); RETINAL ARTERY; RHEUMATISM (complications); SEX FACTORS; SICILY; SYPHILIS (complications); SYPHILIS, CARDIOVASCULAR (occurrence); VIRUS DISEASES (complications).

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Diabetes Literature—Author Index

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Diabetes Literature—Author Index

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PERCHLORIC ACIDS; TRITIUM; CELL COUNT; PREDNISOLONE (pharmacodynamics); URONIC ACIDS (analysis); ESTRADIOL (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); BRADYKININ (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); SEROTONIN (pharmacodynamics); HISTAMINE (pharmacodynamics).

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ANIMAL EXPERIMENTS; ANTIHISTAMINICS (pharmacodynamics, administration & dosage); DEPRESSION, CHEMICAL; DOGS; GASTRIC JUICE (secretion); IMIDAZOLES (pharmacodynamics); INJECTIONS, INTRAVENOUS; INSULIN (pharmacodynamics); SECRETORY RATE (drug effects); SULFIDES (pharmacodynamics); THIOUREA (analogs & derivatives, pharmacodynamics); VAGUS NERVE (drug effects).

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ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS; CARBOHYDRATES (analysis); CATARACT (etiology); CELL MEMBRANE (metabolism); CHEMISTRY; DIABETES MELLITUS (metabolism, enzymology, complications); DIABETIC ANGIOPATHIES (etiology); FRUCTOSE (metabolism); GLUCOSE (metabolism); GLUCOSYLTRANSFERASES (metabolism); HUMAN; IN VITRO; KIDNEY CORTEX (enzymology); KIDNEY GLOMERULUS (metabolism); NERVE TISSUE (analysis); RATS; SORBITOL (metabolism, analysis); SUGAR ALCOHOLS (metabolism); WATER-ELECTROLYTE BALANCE.

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AGE FACTORS; ALCOHOL
OXIDOREDUCTASES (antagonists & inhibitors); ANIMAL EXPERIMENTS; BASEMENT MEMBRANE; CATARACT (etiology); DIABETES MELLITUS (metabolism, enzymology); DIABETIC ANGIOPATHIES (etiology, metabolism); DIABETIC NEUROPATHIES (metabolism); DIABETIC RETINOPATHY (metabolism); FRUCTOSE (toxicity); GLUCOSE (metabolism); HUMAN; IN VITRO; KIDNEY CORTEX; KIDNEY GLOMERULUS; RATS; SORBITOL (metabolism); STREPTOZOTOCIN; SUGAR ALCOHOLS (toxicity).

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ADENOCARCINOMA (occurrence, chemically induced); ADULT; AGED; ALCOHOL DRINKING; CARCINOGENS; COFFEE; DIABETES MELLITUS (complications); DIETARY FATS; ESTROGENS; FAMILY CHARACTERISTICS; FEMALE; HUMAN; JAPAN (ethnology); KIDNEY NEOPLASMS (occurrence, chemically induced); MALE; MICE; MIDDLE AGE; MYOCARDIAL INFARCT (complications); NEOPLASMS, EXPERIMENTAL (chemically induced); NEOPLASMS, MULTIPLE PRIMARY (occurrence); OBESITY (complications); OCCUPATIONAL DISEASES (occurrence); PARITY; RACIAL STOCKS; RELIGION;

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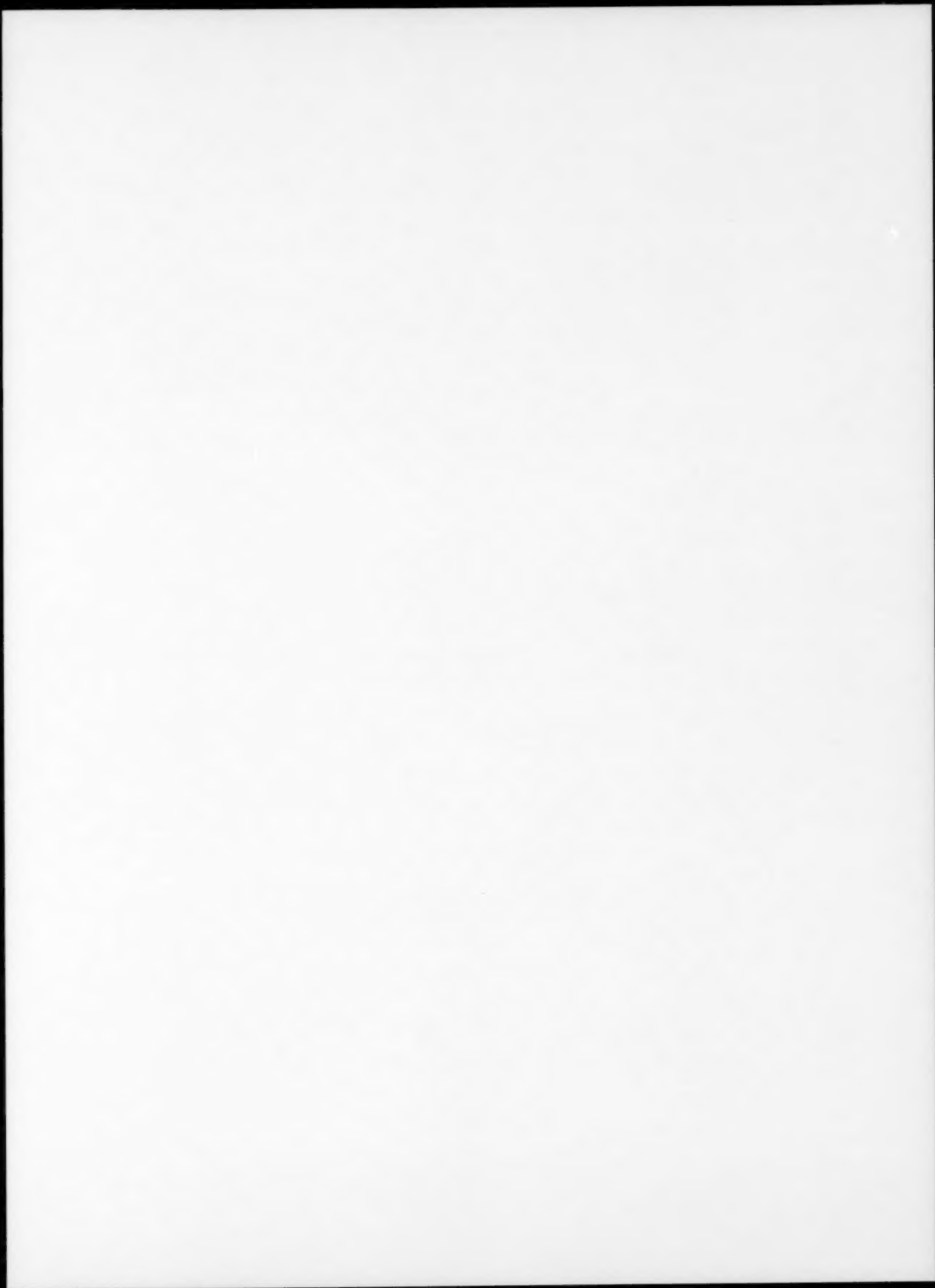
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